

IN THE CLAIMS:

1. (Currently Amended) A radio communication system comprising a controller and plurality of stations, each station comprising transmission and reception circuitry, in which peer-to-peer communication between stations takes place in time slots allocated by the controller, wherein a receiving station has means for storing information relating to a transmission parameter of each of the others of the plurality of stations and is used~~configured to form, and record, at least one~~ a ~~respective~~ parameter history for each of the plural stations from which said receiving station has received a prior transmission~~station~~, and means for adjusting its receiver circuitry prior to reception of a signal from a transmitting station using the recorded parameter history of the transmitting station.

2. (Previously Presented) The system as claimed in claim 1, wherein the receiving station has means for storing a plurality of values for each transmission parameter relating to signals received at different times and means for operating on a plurality of these values to compensate for drift in the value of the transmission parameter.

3. (Currently Amended) A station for use in a radio communication system comprising a controller and a plurality of stations, each station comprising transmission and reception circuitry, in which peer-to-peer communication between stations takes place in time slots allocated by the controller, wherein ~~thesaid~~ station for use has means for storing information relating to a transmission parameter of each of the others of the

plurality of stations and theis configured to use thestored information is used to form, and record, a respective parameter history for each of the plural stations from which said station for use has received a prior transmissionstation, and has means for adjusting its receiver circuitry prior to reception of a signal from a transmitting station using the recorded parameter history of the transmitting station.

4. (Previously Presented) The station as claimed in claim 3, wherein a transmission parameter is the frequency offset of signals from the transmitting station.

5. (Previously Presented) The station as claimed in claim 3, wherein a transmission parameter is the signal strength of signals from the transmitting station.

6. (Previously Presented) The station as claimed in claim 1, wherein means are provided for storing a plurality of values for each transmission parameter relating to signals received at different times and for operating on a plurality of these values to compensate for drift in the value of the transmission parameter.

7. (Currently Amended) A method of operating a radio communication system comprising a controller and a plurality of stations, each station comprising transmission and reception circuitry, in which peer-to-peer communication between stations takes place in time slots allocated by the controller, wherein a receiving station stores information relating to a transmission parameter of each of the others of the plurality of stations and is useduses the information to form, and record, at least onea

parameter history for each of the plural stations from which said receiving station has received a prior transmission, and adjusts its receiver circuitry prior to reception of a signal from a transmitting station using the recorded parameter history of the transmitting station if said receiving station has received the respective prior transmission.

8. (Previously Presented) The method as claimed in claim 7, wherein a transmission parameter being the frequency offset of signals from the transmitting station.

9. (Previously Presented) The method as claimed in claim 7, wherein a transmission parameter being the signal strength of signals from the transmitting station.

10. (Previously Presented) The method as claimed in claim 1, wherein the receiving station storing a plurality of values for each transmission parameter relating to signals received at different times and operating on a plurality of these values to compensate for drift in the value of the transmission parameter.

11. (Previously Presented) The method as claimed in claim 1, wherein the parameter history includes information from a number of previous transmissions by the other stations.

12. (New) The system of claim 1, wherein said means for adjusting performs said adjusting if said receiving station has received the respective prior transmission.

13. Said station for use according to claim 3, wherein said means for adjusting performs said adjusting if said station for use has received the respective prior transmission.